

## **Job Description Mechanical Engineer I**

Type of Job – Full Time – Salaried  
Location – Swanzey, New Hampshire

### **Job Summary**

The Mechanical Engineer I is part of a team dedicated to advancing Nanotech’s machine technology. This position is principally responsible for the engineering and support of ultra-precision machine systems for the electro-optics manufacturing industry. This position will utilize complex mathematics, computer simulation and CAD software for the design and development of ultra-precision machine systems. The Mechanical Engineer I will have the ability to define and resolve engineering problems under close supervision of more experienced personnel. *Typical projects are* a combination of new development, maintenance, and revision of existing applications.

### **Core Responsibilities/Duties**

- Ability to utilize basic principles, theories, concepts and techniques of the mechanical engineering discipline.
- Solve mechanical problems using precision engineering practices under close supervision of more experienced personnel.
- Ability to complete specific tasks associated with a larger project.
- Conceptualize and engineer new, unique mechanical systems that meet customer requirements.
- Represent machine systems, subsystems, and accessories accurately through CAD system and documentation such as Bill of Materials, specifications, instructions sheets.
- Create appropriately toleranced prints, with effective use of geometric tolerancing, and general detailing practices per current ANSI standards.
- Perform engineering changes (EC) according to standard procedures with extreme attention to detail of the design, how the EC will effect disposition of past, present and future effected products, and EC documentation.
- Handle multiple projects simultaneously, meet deadlines, while effectively managing priorities and communicating progress.
- Actively participate in product design reviews and work directly with the engineering staff to develop cost effective solutions.
- Interface with engineers and technicians of the other Moore business units to help coordinate overall technical activities wherever appropriate and desirable.
- Ensure that all relevant data is collected, reviewed, and filed for all projects in accordance with standard procedures.
- Prepare and present detailed technical reports to management and staff.
- Contribute to written instruction and operation manuals for Nanotech’s products.
- Perform in-house technical support.
- Help to achieve the completion of all projects within budget and on schedule.
- Travel up to 10% of the time.
- Perform other related duties as assigned in accordance with overall job responsibilities.

## **Education and Experience**

- Bachelor's degree in Mechanical Engineering from an accredited university and 0 - 5 years of work experience.
- Demonstrated versatility and high competency levels in creativity and technical comprehension.
- Efficient and effective use of engineering tools such as CAD, Enterprise Product Data Management (EPDM) and associated work flows, and release processes.
- Computer proficiency in MS Office Suite.

## **Competencies/Abilities**

- *Excellent interpersonal skills (written & verbal communication, ability to articulate ideas and concepts, capable of positive influence and ability to work alone or as part of a team).*
- Utilize strong verbal and written skills to communicate effectively with technical and non-technical partners at various levels.
- Self-motivated and work independently, or as part of a group.
- Excellent organizational skills, with strong attention to detail.
- Maintain professionalism with all visitors and guests.

To apply for this position, please send your resume to: [careers@nanotechsys.com](mailto:careers@nanotechsys.com).